

TYPE 2 BAR

			0	01666 301160066			
WARK	SIZE	MARK SIZE QUAN TYPE	TYPE	R	S	LENGTH	TOTAL LENGTH
\triangleright	5		STR			4'-9"	
В	4		STR				
С	5		2	2'-0"	2'-0" 1'-0"	3'-0"	
D	4		STR			4'-9"	
_	4		2	2'-6"	9,"	3'-3"	
	4		STR	1		4'-9"	
			#4	BARS,	TOTAL	#4 BARS, TOTAL LENGTH	
			#5	BARS,	TOTAL	#5 BARS, TOTAL LENGTH	

- STEEL SCHEDULE
- CONCRETE (0.27 CU.YDS./LIN.FT.) ESTIMATED QUANTITIES

<u>C</u>.

STEEL	STEEL #	STEEL 1
(61.5 FT./CORNER	#5 (9.3 FT./LIN.	#4 (19.6 FT./LIN. FT.)
CORNER) _	LIN. FT.)	/LIN. FT.) _
	FT	FT
• '	. '	

- *CONCRETE SHALL MEET PA 313 OR 561 SPECIFICATION REQUIREMENTS.
 *MINIMUM SPLICE LENGTHS OF ALL #4 BARS IS 16".
 *MINIMUM SPLICE LENGTHS OF ALL #5 BARS IS 17".
 *STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.
 *SUBSTITUTION OF GRADE 60 BARS IS PERMITTED.

TOTAL LENGTH OF WALL

FOR FROST PROTECTION, A 2-FOOT BACKFILL IS RECOMMENDED. DIMENSIONS ARE TO THE REINFORCING BAR SURFACE.

2

LIQUID-TIGHT JOINT

8

= CONSTRUCTION JOINT

LIQUID-TIGHT JOINT OPTIONS

HYDROPHILIC WATERSTOP NON-METALIC WATERSTOP (PVC)

> IF SLAB AND WALL ARE POURED SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO CONSTRUCTION JOINT OPTIONS

THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.

2

PLACEMENT OF

NEW CONCRETE.

WATERSTOP

5-FOOT WALL CORNER DETAILS RESTRAINING SLAB OPTIONS SLAB CORNER DETAILS SEE SEE PA-026B PA-024 PA-024

GENERAL DESIGN NOTES:

DRAINAGE SHALL BE AWAY FROM THE WALL.

- THE MINIMUM TOP WIDTH OF THE BACKFILL AGAINST THE OR GREATER THAN THE BACKFILL HEIGHT WALL SHALL BE EQUAL TO
- *MAXIMUM FOOTING CONTACT PRESSURE IS 870 psf/ft. *MAXIMUM FOOTING CONTACT PRESSURE IS 1440 psf/ft.

DESIGN STRENGTHS: WORKING STRESS DESIGN WHEN USED AS A RAMP SUPPORT.

CONCRETE $f_c = 4,000 \text{ psi}$ STEEL psi. (GRADE 40)

DESIGN LOADING: 313 STANDARD — LATERAL EARTH PRESSURE VALUES, SEE SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE. $f_S = 20,000$

WALL

MANURE LOAD INSIDE = 65 psf/ft.

*SOIL BACKFILL LOAD OUTSIDE = 60 psf/ft. *120 psf HORIZONTAL SURCHARGE OR A 2.5:1 SLOPING BACKFILL IS ALLOWED

SOIL BACKFILL DENSITY = 110 pcf.

*WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

RESTRAINT REQUIREMENTS:

WALL TH C SLAB, SAFETY FACTOR AGAINST SLIDING 1.5 \leq

** MINIMUM SLAB LENGTH OF 4 FEET REQUIRED AND MUST BE TIED INTO THE WALL FOOTING. REINFORCEMENT)

SLAB POURED WITH WALL FOOTING:

#3 BARS @ 18" SPACING (MINIMUM SLAB NOT POURED WITH WALL FOOTING:

#3 DOWEL BARS — 3'-0" LENGTH @ 3'-0"

SPACING.

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPE WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WI. 53717—2906

(ADAPTED FROM WI-553, APRIL 2005)

PA-021D

PA-021D 07/06/07 12:51 IT WAS DEVELOPED IN COOPERATION MER PROTECTION. THE DESIGN FOLDER



COUNTY, PENNSYLVANIA

5' HIGH, 8" THICK T-WALL (W/SURCHARGE)

Date <u>06/23/0</u>5 TJA